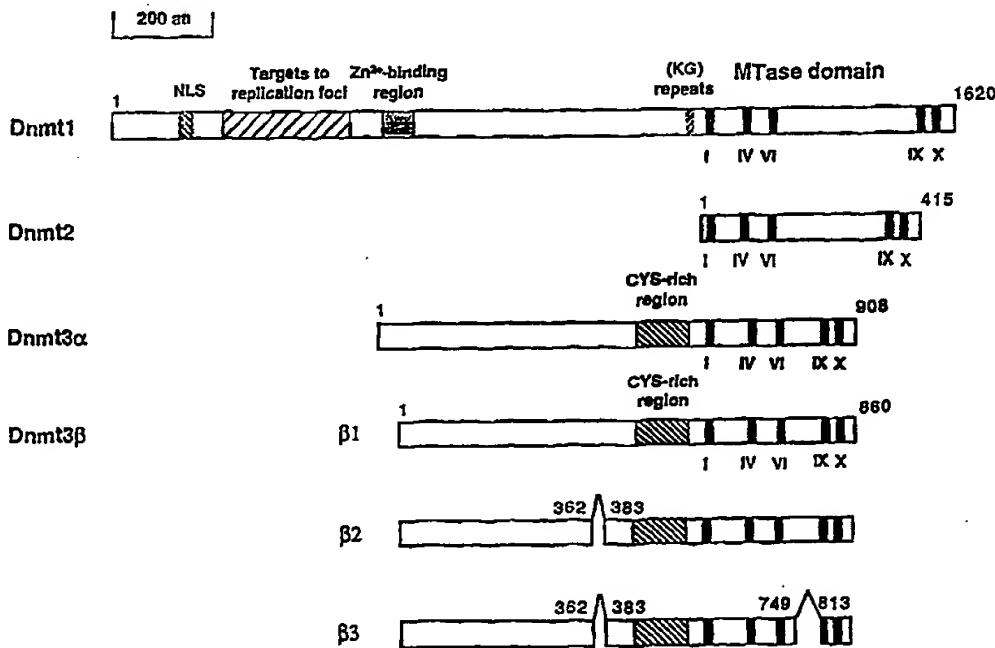




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(54) Title: *DE NOVO* DNA CYTOSINE METHYLTRANSFERASE GENES, POLYPEPTIDES AND USES THEREOF

(57) Abstract

De novo DNA cytosine methyltransferase polynucleotides and polypeptides and methods for producing said polypeptides are disclosed. Also disclosed are methods for utilizing *de novo* DNA cytosine methyltransferase polynucleotides and polypeptides in diagnostic assays, for an *in vitro* DNA methylation application and therapeutic applications such as the treatment of neoplastic disorders.